

Product datasheet for **SC122596**

ADAM2 (NM_001464) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADAM2 (NM_001464) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADAM2
Synonyms:	CRYN1; CRYN2; CT15; FTNB; PH-30b; PH30; PH30-beta
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001464 edited
GGCTGGGACCCAGGACTTCAAGCCATGTGGCGCGTCTTGTCTGCTCAGCGGGCTCGGC
GGGCTGCGGATGGACAGTAATTTTGATAGTTTACCTGTGCAAATTACAGTTCCGGAGAAA
ATACGGTCAATAATAAAGGAAGGAATTGAATCGCAGGCATCCTACAAAATTGTAATTGAA
GGGAAACCATATACTGTGAATTTAATGCAAAAAAACTTTTACCCATAATTTTAGAGTT
TACAGTTATAGTGGCACAGGAATTATGAAACCACTTGACCAAGATTTTCAGAATTTCTGC
CACTACCAAGGGTATATTGAAGGTTATCCAAAATCTGTGGTGATGGTTAGCACATGTACT
GGACTCAGGGGCGTACTACAGTTTGAAAAATGTTAGTTATGGAATAGAACCCTGGAGTCT
TCAGTTGGCTTTGAACATGTAATTTACCAAGTAAACATAAGAAAAGCAGATGTTTCCTTA
TATAATGAGAAGGATATTGAATCAAGAGATCTGTCCTTTAAATTACAAAGCGTAGAGTAT
AATCATATGGGGTCTGATACAACTGTTGTCGCTCAAAAAGTTTCCAGTTGATTGGATTG
ACGAATGCTATTTTTGTTTCATTTAATATTACAATTATTCTGTCTTCATTGGAGCTTTGG
ATAGATGAAAATAAAATTGCAACCACTGGAGAAGCTAATGAGTTATTACACACATTTTAA
AGATGGAAAACATCTTATCTTGTCTTACGTCCTCATGATGTGGCATTTTTACTTGTTCAC
AGAGAAAAGTCAAATTATGTTGGTGCAACCTTTCAAGGGAAGATGTGTGATGCAAACTAT
GCAGGAGGTGTTGTTCTGCACCCAGAACCATAACTCTGGAATCACTTGACAGTTATTTTA
GCTCAATTATTGAGCCTTAGTATGGGGATCACTTATGATGACATTAACAAATGCCAGTGC
TCAGGAGCTGTCTGCATTATGAATCCAGAAGCAATTCATTTAGTGGTGTGAAGATCTTT
AGTAACTGCAGCTTCGAAGACTTTGCACATTTTATTTCAAAGCAGAAGTCCCAGTGTCTT
CACAATCAGCCTCGCTTAGATCCTTTTTTCAAACAGCAAGCAGTGTGTGGTAATGCAAAG
CTGGAAGCAGGAGAGGAGTGTGACTGTGGGACTGAACAGGATTGTGCCCTTATTGGAGAA
ACATGCTGTGATATTGCCACATGTAGATTTAAAGCCGGTTCAAAGTGTGCTGAAGGACCA
TGCTGCGAAAACGTGTCTATTTATGTCAAAGAAAGAATGTGTAGGCCCTTCTTTGAAGAA
TGGGACCTCCCTGAATATTGCAATGGATCATCTGCATCATGCCCAGAAAACCACTATGTT
CAGACTGGGCATCCGTGTGGACTGAATCAATGGATCTGTATAGATGGAGTTTGTATGAGT
GGGGATAAAACAATGTACAGACACATTTGGCAAAGAAGTAGAGTTTGGCCCTTCAGAATGT
TATTCTCACCTTAATTCAAAGACTGATGTATCTGGAACTGTGGTATAAGTGATTCAGGA
TACACACAGTGTGAAGCTGACAATCTGCAGTGGGAAAATTAATATGTAATATGTAGGT
AAATTTTTATTACAAATCCAAGAGCCACTATTATTTATGCCAACATAAGTGGACATCTC
TGCATTGCTGTGGAATTTGCCAGTGATCATGCAGACAGCCAAAAGATGTGGATAAAAGAT
GGAACCTCTTGTGGTTCAAATAAGGTTTGCAGGAATCAAAGATGTGTGAGTTCTTCATAC
TTGGGTTATGATTGTACTACTGACAAATGCAATGATAGAGGTGTATGCAATAACAAAAAG
CACTGTCACTGTAGTGCTTCATATTTACCTCCAGATTGCTCAGTTCAATCAGATCTATGG
CCTGGTGGGAGTATTGACAGTGGCAATTTCCACCTGTAGCTATACCAGCCAGACTCCCT
GAAAGGCGCTACATTGAGAACATTTACCATTCCAAACCAATGAGATGGCCATTTTCTTA
TTCATTCTTTCTTTATATTTTCTGTGTACTGATTGCTATAATGGTGAAAGTTAATTC
CAAAGGAAAAAATGGAGAACTGAGGACTATTCAAGCGATGAGCAACCTGAAAGTGAGAGT
GAACCTAAAGGGTAGTCTGGACAACAGAGATGCCATGATATCACTTCTTCTAGAGTAATT
ATCTGTGATGGATGGACACAAAAAATGGAAAGAAAAGAATGTACATTACCTGGTTTCCT
GGGATTCAAACCTGCATATTGTGATTTTAATTTGACCAGAAAATATGATATATATGTATA
ATTTACAGATAATTTACTTATTTAAAAATGCATGATAATGAGTTTTACATTACAAATTT
CTGTTTTTTTTAAAGTTATCTTACGCTATTTCTGTTGGTTAGTAGACACTAATTCTGTCAG
TAGGGGCATGGTATAAGGAAATATCATAATGTAATGAGGTGGTACTATGATTAAGGCCA
CTGTTACATTTCAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001464 unedited <pre> NNNGGAGTTTAGATTTTGTAAATACGACTCACTATAGGGCCGGCCGCATAACTTCGTATAG CATACATTATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTCGAGAGC GGGGCTGGGACCCAGGACTTCAAGCCATGTGGCGCGTCTTGTTTCTGCTCAGCGGGCTCG GCGGGCTGCGGATGGACAGTAATTTTGATAGTTTACCTGTGCAAATTACAGTTCCGGAGA AAATACGGTCAATAATAAAGGAAGGAATTGAATCGCAGGCATCCTACAAAATTGTAATTG AAGGGAACCATATACTGTGAATTTAATGCAAAAAAATTTTTACCCATAATTTTAGAG TTTACAGTTATAGTGGCACAGGAATTATGAAACCACTTGACCAAGATTTTCAGAATTTCT GCCACTACCAAGGGTATATTGAAGGTTATCCAAAATCTGTGGTGATGGTTAGCACATGTA CTGGACTCAGGGGCGTACTACAGTTTGAAAATGTTAGTTATGGAATAGAACCCCTGGAGT CTTCAGTTGGCTTTGAACATGTAATTTACCAAGTAAACATAAGAAAGCAGATGTTTCCT TATATAATGAGAAGGATATTGAATCAAGAGATCTGTCCTTTAAATTACAAAGCGTAGAGT ATAATCATATGGGGTCTGATACAACCTGTTGTCGCTCAAAAAGTTTCCAGTTGATTGGAT TGACGAATGCTATTTTTGTTTCATTTAATATTACAATTATTCTGTCTTCATTGGAGCTNT GGATAGATGAAAATAANAATTGCACCACTGGAGAAGCTAATGAGTTATTACACACATTTT TAAGATGGAAAAACATCTNATCTGTTTTACGTCCTCATGATGTGGCATTTTTACTTGTTT ACAGAGAAAAGTCAAATATGTT </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001464
Insert Size:	2552 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001464.3, NP_001455.3</u>
RefSeq Size:	2657 bp
RefSeq ORF:	2208 bp
Locus ID:	2515
UniProt ID:	<u>Q99965</u>
Cytogenetics:	8p11.22
Protein Families:	Druggable Genome, Protease, Transmembrane

Gene Summary:

This gene encodes a member of the ADAM (a disintegrin and metalloprotease domain) family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. The encoded protein is a subunit of an integral sperm membrane glycoprotein called fertilin, which plays an important role in sperm-egg interactions. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2013]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).